

**Discrete Mathematics**  
**Volume 246, Numbers 1–3, 6 March 2002**

**Contents**

**Foreword**

- R. Cori and M. Noy* 1

**Contributions**

- S.A. Abramov*  
A direct algorithm to compute rational solutions of first order linear  $q$ -difference systems 3
- R. Bacher and A. Vdovina*  
Counting 1-vertex triangulations of oriented surfaces 13
- C. Banderier, M. Bousquet-Mélou, A. Denise, P. Flajolet, D. Gardy and D. Gouyou-Beauchamps*  
Generating functions for generating trees 29
- N. Bergeron, S. Mykytiuk, F. Sottile and S. van Willigenburg*  
Shifted quasi-symmetric functions and the Hopf algebra of peak functions 57
- C. Chauve and S. Dulucq*  
A geometric version of the Robinson-Schensted correspondence for skew oscillating tableaux 67
- G. Duchamp and J.-G. Luque*  
Transitive factorizations of free partially commutative monoids and Lie algebras 83
- S. Feretić*  
A  $q$ -enumeration of directed diagonally convex polyominoes 99
- M.A. Fiol*  
Algebraic characterizations of distance-regular graphs 111
- S.R. Ghorpade*  
Hilbert functions of ladder determinantal varieties 131
- G. Labelle, P. Leroux, E. Pergola and R. Pinzani*  
Stirling numbers interpolation using permutations with forbidden subsequences 177
- C.H. Li, C.E. Praeger, A. Venkatesh and S. Zhou*  
Finite locally-quasiprimitive graphs 197
- S. Linusson*  
Extended pattern avoidance 219

**Discrete Mathematics**  
**Volume 246, Numbers 1–3, 6 March 2002**

**Contents**

**Foreword**

- R. Cori and M. Noy* 1

**Contributions**

- S.A. Abramov*  
A direct algorithm to compute rational solutions of first order linear  $q$ -difference systems 3
- R. Bacher and A. Vdovina*  
Counting 1-vertex triangulations of oriented surfaces 13
- C. Banderier, M. Bousquet-Mélou, A. Denise, P. Flajolet, D. Gardy and D. Gouyou-Beauchamps*  
Generating functions for generating trees 29
- N. Bergeron, S. Mykytiuk, F. Sottile and S. van Willigenburg*  
Shifted quasi-symmetric functions and the Hopf algebra of peak functions 57
- C. Chauve and S. Dulucq*  
A geometric version of the Robinson-Schensted correspondence for skew oscillating tableaux 67
- G. Duchamp and J.-G. Luque*  
Transitive factorizations of free partially commutative monoids and Lie algebras 83
- S. Feretić*  
A  $q$ -enumeration of directed diagonally convex polyominoes 99
- M.A. Fiol*  
Algebraic characterizations of distance-regular graphs 111
- S.R. Ghorpade*  
Hilbert functions of ladder determinantal varieties 131
- G. Labelle, P. Leroux, E. Pergola and R. Pinzani*  
Stirling numbers interpolation using permutations with forbidden subsequences 177
- C.H. Li, C.E. Praeger, A. Venkatesh and S. Zhou*  
Finite locally-quasiprimitive graphs 197
- S. Linusson*  
Extended pattern avoidance 219

<i>A.I. Molev</i>		
Yangians and transvector algebras		231
<i>J.-G. Penaud and O. Roques</i>		
Génération de chemins de Dyck à pics croissants		255
<i>V.M. Petrogradsky</i>		
On generating functions for subalgebras of free Lie superalgebras		269
<i>M.H. Rosas</i>		
Specializations of MacMahon symmetric functions and the polynomial algebra	285	
<i>M. Shimozono and D.E. White</i>		
Color-to-spin ribbon Schensted algorithms		295
<i>X. Gérard Viennot</i>		
A Strahler bijection between Dyck paths and planar trees		317
<i>M. Yang</i>		
The first term in the expansion of plethysm of Schur functions		331
<i>P. Zinn-Justin and J.-B. Zuber</i>		
Matrix integrals and the counting of tangles and links		343
Author index to volume 246		361



